

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number	10 b10, 873	
Source:	1FW16	
Date Processed by STIC:	10-14-04	

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PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER

VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND

TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFW16

RAW SEQUENCE LISTING

DATE: 10/14/2004

PATENT APPLICATION: US/10/010,873

TIME: 10:23:26

Input Set : A:\Sequence listing.txt Output Set: N:\CRF4\10142004\J010873.raw

- 3 <110> APPLICANT: Babraham Bioscience Technologies Limited
- 5 <120> TITLE OF INVENTION: Recombinant Nematode Nicotinic Receptor and Uses
- 7 <130> FILE REFERENCE: 18396/2112
- C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/010,873
 - 10 <141> CURRENT FILING DATE: 2001-12-07
 - 12 <150> PRIOR APPLICATION NUMBER: PCT/GB00/02270
 - 13 <151> PRIOR FILING DATE: 2000-06-09
 - 15 <150> PRIOR APPLICATION NUMBER: GB9913248.2
 - 16 <151> PRIOR FILING DATE: 1999-06-09
 - 18 <160> NUMBER OF SEQ ID NOS: 4
 - 20 <170> SOFTWARE: PatentIn Ver. 3.1

Does Not Comply Corrected Diskette Needed

ERRORED SEQUENCES

- 125 <210> SEQ ID NO: 2
- 126 <211> LENGTH: 513
- 127 <212> TYPE: PRT
- 128 <213> ORGANISM: Caenorhabditis elegans
- 130 <400> SEOUENCE: 2
- 131 Met Arg Ser Phe Trp Leu Phe Leu Leu Leu Leu Phe Cys Ile Ser
- 134 Phe Ile Lys Leu Thr Glu Gly Asn Glu Asp Ala Lys Arg Leu Tyr Asp
- 137 Asp Leu Met Val Asn Tyr Asn Arg His Arg Arg Pro Ser Thr Ser Pro
- 40
- 140 Asn Lys Pro Leu Thr Ile Lys Leu Lys Leu Lys Leu Arg Leu Ser Gln
- 143 Ile Ile Asp Val His Glu Ile Asp Gln Ile Met Thr Cys Ser Val Trp
- 75 70

147 90

-> 149 Xaa Xaa Xa<u>a Xaa Xaa Xaa X</u>aa Xaa Xaa Xaa Xaa Xaa Ile Trp Val 100 105

152 Pro Asp Ile Val Leu Tyr Asn Asn Ala Asp Ser Asn Tyr Asn Ile Thr

115

155 Ile Ser Thr Lys Ala Thr Leu His Tyr Thr Gly Glu Val Thr Trp Glu

135

158 Pro Pro Ala Ile Phe Lys Ser Met Cys Gln Ile Asp Val Arg Trp Phe 150

161 Pro Phe Asp Glu Gln Gln Cys His Leu Lys Phe Gly Ser Trp Thr Phe

165 .170

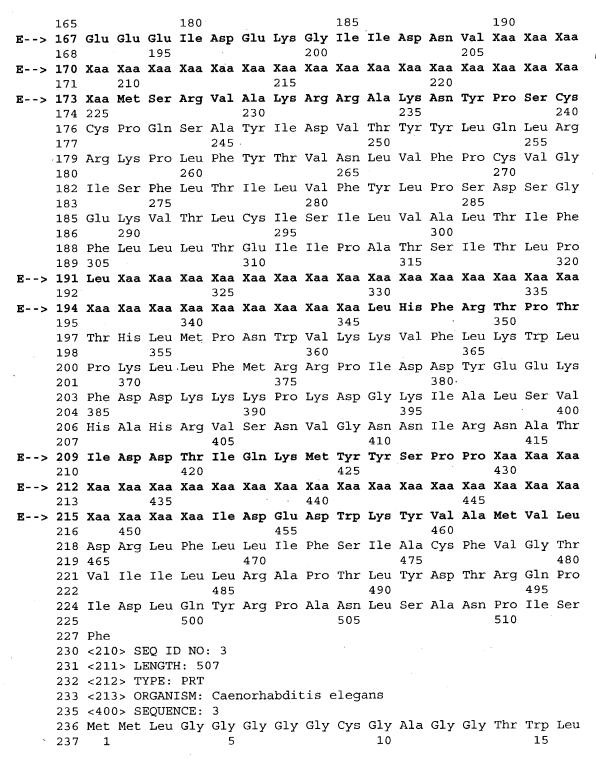
164 Ser Glu Asn Leu Leu Ser Val Glu Leu Asn Glu Pro Ser Leu Arg Tyr

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/010,873

DATE: 10/14/2004 TIME: 10:23:26

Input Set : A:\Sequence listing.txt
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Some

RAW SEQUENCE LISTING DATE: 10/14/2004 PATENT APPLICATION: US/10/010,873 TIME: 10:23:26

Input Set : A:\Sequence listing.txt
Output Set: N:\CRF4\10142004\J010873.raw

239 Gly Phe Leu Val Phe Leu Ala Val Ser Leu Arg Asn His Ser Thr Cys 25 242 Glu Asp Ile Asp Ala Glu Asp Arg Leu Met Val Asp Leu Phe Arg Gly 40 245 Tyr Asn Ser Leu Val Gln Pro Val Arg Asn Arg Ser Glu Leu Pro Met 248 Ile Val Lys Ile Gly Met Gln Leu Val Leu Leu Ile Asn Val Asp Glu 75 70 E--> 251 Lys Glu Gln Val Met His Thr Asn Val Trp Leu Thr Met Lys Trp Xaa 90. 110 100 105 E--> 257 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val Trp Leu Pro Asp Ile Val Leu Phe 115 258 260 Asn Asn Ala Asp Gly Asn Tyr Glu Val Ser Phe Met Cys Asn Val Leu 140 135 263 Ile Leu Ser Thr Gly Thr Val Leu Trp Val Pro Pro Ala Ile Tyr Lys 150 155 266 Ser Ser Cys Ile Ile Asp Val Glu Phe Phe Pro Phe Asp Asp Gln Leu 170 165 269 Cys Ser Leu Thr Phe Gly Ser Trp Thr Tyr Asn Arg Asp Glu Ile Lys 185 270 180 200 195 273 E--> 275 Xaa Xaa Xaa Xaa Xaa Xaa Met Asp Gly Pro Ala Val Leu Thr Ser Asp 215 220 278 Arg Ser Arg Ile Glu Phe Gln Ile Arg Ile Arg Lys Thr Leu Phe 235 230 279 225 281 Tyr Thr Val Val Leu Ile Leu Pro Thr Val Leu Met Ala Phe Leu Asn 245 284 Val Thr Val Phe Tyr Leu Pro Thr Ala Ser Gly Glu Lys Met Gly Leu 260 287 Thr Met Asn Val Leu Leu Ser Ile Val Val Phe Leu Leu Val Ser 275 280 E--> 290 Lys Ile Leu Pro Pro Thr Ser Ser Ile Pro Leu Xaa Xaa Xaa Xaa 295 290 310 315 E--> 296 Xaa Xaa Xaa Xaa Ile Tyr Phe Arg Ser Pro Ile Thr His Arg Leu Pro 325 330 299 Pro Trp Val Arg Lys Val Phe Leu Asp Ile Leu Pro Leu Leu Met Cys 345 340 302 Met Gln Arg Pro His Arg Lys Asn Val Ile Gln Arg Ser His Arg Arg 360 305 Leu Leu Glu Thr Gly Pro Ser Val Glu Glu Asn Pro Met Arg Ser Gly 375 308 Glu His His Pro Leu Cys Arg His Thr His Asn Gln Asp Ser Cys Arg 390 311 Arg Val Arg Ile Gln Ser Asp Glu Leu Asp Asp Glu Leu Ser Pro Glu

RAW SEQUENCE LISTING DATE: 10/14/2004 PATENT APPLICATION: US/10/010,873 TIME: 10:23:26

Input Set : A:\Sequence listing.txt
Output Set: N:\CRF4\10142004\J010873.raw

```
415
                     405
                                       410
425
                 420
    315
E--> 317 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Arg Asp Asp Trp Lys Phe Ile Ala
        435
                               440
    320 Ser Val Val Asp Arg Phe Leu Leu Tyr Gly Phe Phe Gly Ala Thr Val
                            455
    321 450
    323 Gly Gly Thr Ile Gly Ile Ile Phe Thr Ala Pro Ser Val Phe Glu Thr
                                         475
                         470
    326 Phe Asp Glu Asn Ala Thr Leu Val Lys Leu Lys Gln Leu Tyr Asp Met
                     485
                                      490
    329 Gly Leu Ala Asn Asp Thr Val Leu Gly Ile Phe
                  500
    330
    333 <210> SEQ ID NO: 4
    334 <211> LENGTH: 493
    335 <212> TYPE: PRT
    336 <213> ORGANISM: Caenorhabditis elegans
    338 <400> SEQUENCE: 4
    339 Met Arg Thr Asn Arg Leu Ser Trp Ile Leu Val Leu Ser Val Val Ile
                                       10
    342 Phe Leu Val Ile Ile Asn Thr Ile Asn Ala Ser Asp Asp Glu Glu Arg
                  20
    345 Leu Met Val Asp Val Phe Arg Gly Tyr Asn Ser Leu Ile Gln Pro Val
                                40
              3.5
    348 Arg Asn Ser Ser Glu Leu Pro Leu Ile Val Lys Met Ala Leu Gln Leu
                             55
    351 Val Leu Leu Ile Asn Val Asp Glu Lys Asp Gln Val Met His Thr Asn
    352 65
                                                                journe error
  -> 354 Val Trp Leu Thr Leu Gln Trp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
                                       90
105
                  100
    358
    360 Trp Leu Pro Asp Ile Val Leu Phe Asn Asn Ala Asp Gly Asn Tyr Glu
                                120
    363 Val Ser Phe Met Cys Asn Val Val Ile Asn His Lys Gly Asp Met Leu
                            135
           130
    366 Trp Val Pro Pro Ala Ile Tyr Lys Ser Ser Cys Ile Ile Asp Val Glu
                        150
                                          155
    369 Phe Phe Pro Phe Asp Glu Gln Val Cys Thr Leu Val Phe Gly Ser Trp
                     165
                                       170
E--> 372 Thr Tyr Asn Glu Asn Glu Ile Lys Leu Glu Phe Xaa Xaa Xaa Xaa Xaa
                  180
                                   185
200
    378 Val Pro Ala Ser Leu Val Asn Lys Arg Ser Arg Ile Glu Phe Gln Val
                            215
                                              220
    381 Arg Ile Arg Arg Lys Thr Leu Phe Tyr Thr Val Val Leu Ile Ile Pro
                                          235
                         230
    384 Thr Val Leu Met Ala Phe Leu Ser Met Ala Val Phe Phe Leu Pro Thr
```

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PATENT APPLICATION: US/10/010,873

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	A:\Sequence listing.txt	
Output Set:	N:\CRF4\10142004\J010873.ray	N

																A = =			
	385		•			245				-	250			_		255			
	387	Asp	Ser	Gly	Glu	Lys	Ile	Thr	Leu		Ile	Ser	Val	Leu		Ser	He		
	388				260					265					270				
	390	Val	Val	Phe	Leu	Leu	Leu	Val	Ser	Lys	Ile	Leu	Pro	Pro	Thr	Ser	Ser		
	391			275					280					285					
E>	393	Thr	Ile	Pro	Xaa	Xaa	Xaa	Xaa		0									
	394		290					295					300					Sam	
E>	396	Xaa	Val	Tyr	Phe	Arg	err	-05											
		305					310					315					320		
	399	Gly	Pro	Arq	Thr	His	Arg	Met	Pro	Gln	Trp	Val	Arg	۷al	Val	Phe	Leu		
	400	-				325	_				330					335			
	402	Gln	Phe	Leu	Pro	Lys	Leu	Val	Cys	Met	Lys	Arg	Pro	Lys	Ser	Ala	Ser		
	403				340	-			-	345					350				
		Glu	Arq	Ser	Ala	Val	Arq	Ser	Gly	Met	Ala	Gln	Leu	Pro	Gly	Val	Gly		
	406		_	355			_		360					365					
		Gln	Phe	Thr	Leu	Ser	Pro	Ser	Ala	His	His	Pro	Leu	Cys	Pro	Ser	Ala		
	409		370					375					380						
	411	qaA	Asp	Arq	Thr	Thr	Thr	Ile	Arg	Asn	Thr	Ala	Ser	Asn	Glu	Thr	Ser		
		385	_	_			390					395					400		
E>	414	Ala	Tvr	Tyr	Pro	Leu	Ser	Thr	Asp	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa		
	415		-	•		405			_	•	410					415			
E>	417	Xaa	Xaa	Xaa	Phe														
	418	•			420					425					430				
	420	Arq	Asp	Asp	Trp	Lys	Tyr	Val	Ala	Met	Ile	Ile	Asp	Arg	Leu	Leu	Leu		
	421		_	435	_	_	_		440					445					
	423	Tyr	Val	Phe	Phe	Gly	Ile	Thr	Val	Gly	Gly	Thr	Cys	Gly	Ile	Leu	Phe		
	424		450					455					460						
	426	Ser	Ala	Pro	His	Val	Phe	Gln	Arg	Ile	Asp	Gln	Gln	${ t Glu}$	Met	Leu	Asp		
		465					470					475					480		
				Lys	Glu	Lys	Tyr	Asp	Thr	Ala	Ser	Asn	Ile	Pro					
	430	,		-		485	-	-			490								•

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/010,873

DATE: 10/14/2004 TIME: 10:23:27

Input Set : A:\Sequence listing.txt
Output Set: N:\CRF4\10142004\J010873.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

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Seq#:2; Xaa Pos. 86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103
Seq#:2; Xaa Pos. 104,105,106,107,108,109,206,207,208,209,210,211,212,213
Seq#:2; Xaa Pos. 214,215,216,217,218,219,220,221,222,223,224,225,322,323
Seq#:2; Xaa Pos. 324,325,326,327,328,329,330,331,332,333,334,335,336,337
Seq#:2; Xaa Pos. 338,339,340,341,342,343,344,345,430,431,432,433,434,435
Seg#:2; Xaa Pos. 436,437,438,439,440,441,442,443,444,445,446,447,448,449
Seq#:2; Xaa Pos. 450,451,452
Seq#:3; Xaa Pos. 96,97,98,99,100,101,102,103,104,105,106,107,108,109,110
seq#:3; Xaa Pos. 111,112,113,114,115,116,117,118,119,196,197,198,199,200
Seq#:3; Xaa Pos. 201,202,203,204,205,206,207,208,209,210,211,212,213,214
Seq#:3; Xaa Pos. 301,302,303,304,305,306,307,308,309,310,311,312,313,314
Seq#:3; Xaa Pos. 315,316,317,318,319,320,321,322,323,324,417,418,419,420
Seq#:3; Xaa Pos. 421,422,423,424,425,426,427,428,429,430,431,432,433,434
Seq#:3; Xaa Pos. 435,436,437,438,439
Seq#:4; Xaa Pos. 88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104
Seq#:4; Xaa Pos. 105,106,107,108,109,110,111,188,189,190,191,192,193,194
Seq#:4; Xaa Pos. 195,196,197,198,199,200,201,202,203,204,205,206,292,293
Seq#:4; Xaa Pos. 294,295,296,297,298,299,300,301,302,303,304,305,306,307
Seq#:4; Xaa Pos. 308,309,310,311,312,313,314,315,316,409,410,411,412,413
Seq#:4; Xaa Pos. 414,415,416,417,418,419,420,421,422,423,424,425,426,427
Seq#:4; Xaa Pos. 428,429,430,431
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VERIFICATION SUMMARY

DATE: 10/14/2004

PATENT APPLICATION: US/10/010,873

TIME: 10:23:27

Input Set : A:\Sequence listing.txt

Output Set: N:\CRF4\10142004\J010873.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:146 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2

M:340 Repeated in SeqNo=2

L:251 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3

M:340 Repeated in SeqNo=3

L:354 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4

M:340 Repeated in SeqNo=4